#### PATENT COOPERATION TREATY

# From the INTERNATIONAL SEARCHING AUTHORITY To: NOTIFICATION OF TRANSMITTAL OF CARPMAELS & RANSFORD THE INTERNATIONAL SEARCH REPORT AND Attn. Tunstall, Christopher THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION 43-45 Bloomsbury Square London WC1A 2RA UNITED KINGDOM (PCT Rule 44.1) Date of mailing (day/month/year) 05/09/2005 Applicant's or agent's file reference FOR FURTHER ACTION See paragraphs 1 and 4 below P037872W0 International application No. International filing date (day/month/year) PCT/GB2005/002131 27/05/2005 Applicant CILAG AG INTERNATIONAL The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): When? The time limit for filling such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet. Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41-22) 740.14.35 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no International search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. 4. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication. The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date. Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices. In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19

Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentiaan 2

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Guide, Volume II, National Chapters and the WIPO Internet site.

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Authorized officer

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's

Vera Schertl

#### **NOTES TO FORM PCT/ISA/220**

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

# **INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19**

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international pbulication. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

## Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

# What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 1994)

# NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

# The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
   "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
   claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
   "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
  - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

#### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

## Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

Notes to Form PCT/ISA/220 (second sheet) (January 1994)

# **PATENT COOPERATION TREATY**

# **PCT**

# **INTERNATIONAL SEARCH REPORT**

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220		
P037872WO	ACTION	as well as, where applicable, item 5 below.			
International application No.	International filing date (day/mon	th/year)	(Earliest) Priority Date (day/month/year)		
PCT/GB2005/002131	27/05/2005 28/05/2004				
Applicant					
CILAG AG INTERNATIONAL					
This International Search Report has been according to Article 18. A copy is being tra			nority and is transmitted to the applicant		
This International Search Report consists of a total of5 sheets.  X It is also accompanied by a copy of each prior art document cited in this report.					
11 S also accompanied by	a copy of each phor art document		raport.		
Basis of the report					
language in which it was filed, unl	ess otherwise indicated under this	tem.	sis of the international application in the		
The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).					
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.					
2. Certain claims were fou	nd unsearchable (See Box II).				
3. Unity of invention is lacking (see Box III).					
4. With regard to the <b>title</b> ,					
X the text is approved as su	bmitted by the applicant.				
	hed by this Authority to read as foll	ows:	er e		
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			•		
			\$		
5. With regard to the <b>abstract</b> ,					
the text is approved as su	bmitted by the applicant.				
X the text has been establis	hed, according to Rule 38.2(b), by	this Authori	ty as it appears in Box No. IV. The applicant		
may, within one month fro	m the date of mailing of this interna	itionai sear	ch report, submit comments to this Authority.		
6. With regard to the drawings,					
a. the figure of the <b>drawings</b> to be p	ublished with the abstract is Figure	No1_			
as suggested by t					
	s Authority, because the applicant	-	· · · · · · · · · · · · · · · · · · ·		
<u> </u>	s Authority, because this figure bet e published with the abstract.	er cnaracte	rizes the invention.		
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International application No.

PCT/GB2005/002131

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

An injection device (210, 110) is described. A housing (212; 112) receives a syringe and includes a return spring (226; 126) for biasing the syringe from an extended position in which its needle (218; 118) extends from the housing to a retracted position in which the it does not. A drive spring (230; 130) acts on a first drive element (232; 132) and a second drive element (234; 134) acts upon the syringe to advance it from its retracted position to its extended position and discharge its contents through the needle. The first drive element is capable of movement relative to the second once a nominal decoupling position has been reached. A release mechanism is activated when the first drive element is further advanced to a nominal release position, to release the syringe (214; 114) from the action of the drive spring, whereupon the return spring restores the syringe to its retracted position. The nominal decoupling and release positions are defined relative to the syringe. This may be achieved by interaction between a moving component and a decoupling component (162, 262) that moves with the syringe as it is advanced.

International Application No PCT/GB2005/002131

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a. classi IPC 7	FICATION OF SUBJECT MATTER A61M5/20 A61M5/32		
	o International Patent Classification (IPC) or to both national classifi	cation and IPC	
	SEARCHED cumentation searched (classification system followed by classification system followed by classific	tion eyenhole)	
IPC 7	A61M	uon symbols)	
	lion searched other than minimum documentation to the extent that		
Electronic da	ata base consulted during the international search (name of data b	ase and, where practical, sea	rch terms used)
EPO-In	terna1		
C. DOCUMI	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the re	elevant passages	Relevant to claim No.
Х	WO 03/092771 A (PA KNOWLEDGE LIM MARTIN, JEFFREY; HUGHES, MARTIN, 13 November 2003 (2003-11-13) abstract; figure 5a	ITED; LAWRENCE)	1-20
X	US 2001/005781 A1 (BERGENS THOMAS ET AL) 28 June 2001 (2001-06-28) abstract; figures 3A-3J		1,11
Ρ,Χ	WO 2004/054645 A (CILAG AG INTERNATIONAL; HARRISON, NIGEL, DAVID; BRADY, MATTHEW, JAMES;) 1 July 2004 (2004-07-01) abstract; figures		1,11
X	WO 03/097133 A (OWEN MUMFORD LIM MARSHALL, JEREMY) 27 November 2003 (2003-11-27) abstract; figures 3-5	ITED;	1–20
X Furth	her documents are listed in the continuation of box C.	X Patent family mem	bers are listed in annex.
<ul> <li>Special categories of cited documents:</li> <li>'A* document defining the general state of the art which is not considered to be of particular relevance</li> <li>'E* earlier document but published on or after the international filing date</li> <li>'L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>'O' document referring to an oral disclosure, use, exhibition or other means</li> <li>'P' document published prior to the international filing date but later than the priority date claimed</li> <li>'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>'B' document member of the same patent family</li> </ul>			
Date of the	actual completion of the international search	Date of mailing of the in	nternational search report
2	4 August 2005	05/09/200	5
Name and r	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer	
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Ehrsam, F	

International Application No
PCT/GB2005/002131

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT					
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
/x	WO 2004/011065 A (ALZA CORPORATION) 5 February 2004 (2004-02-05) abstract; figures	1-20			

Information on patent family members

International Application No PCT/GB2005/002131

Patent document cited in search report	Publication date	Patent family Publication member(s) date		
WO 03 <b>09</b> 2771 A	13-11-2003	GB 239 AU 200322 CA 248 EP 150 WO 0309	8033 A 6298 A 9994 A1 3935 A1 3816 A1 2771 A1 4940 A1	05-11-2003 23-06-2004 17-11-2003 13-11-2003 09-02-2005 13-11-2003 09-06-2005
US 2001005781 A1	28-06-2001	AT 28 AU 158 DE 6992 EP 112 ES 223 JP 200252 WO 002	0479 B1 5805 T 9300 A 2992 D1 4601 A1 4321 T3 8182 T 4441 A1 5156 B	07-08-2001 15-01-2005 15-05-2000 03-02-2005 22-08-2001 16-06-2005 03-09-2002 04-05-2000 11-07-2001
WO 2004054645 A	01-07-2004	AU 200329 WO 200405	6816 A 4124 A1 4645 A2 7767 A	07-07-2004 09-07-2004 01-07-2004 04-08-2004
WO 03097133 A	27-11-2003		7566 A1 7133 A1	23-02-2005 27-11-2003
WO 2004011065 A	05-02-2004	WO 200401	7994 A1 1065 A1 4367 A1	16-02-2004 05-02-2004 05-02-2004

# PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/GB2005/002131 27.05.2005 28.05.2004 International Patent Classification (IPC) or both national classification and IPC A61M5/20, A61M5/32 Applicant CILAG AG INTERNATIONAL 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion ☐ Box No. II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III ☐ Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. 3. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA: Authorized Officer

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# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2005/002131

	Box No. I Basis of the opinion
1.	With regard to the <b>language</b> , this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2.	With regard to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material:
	□ a sequence listing
	□ table(s) related to the sequence listing
	b. format of material:
	□ in written format
	□ in computer readable form
	c. time of filing/furnishing:
	□ contained in the international application as filed.
	☐ filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating theret has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	copies is identical to that in the application as filed or does not go beyond the application as filed, as

Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

1-20

Inventive step (IS)

Yes: Claims

No: Claims

1-20

Industrial applicability (IA)

Yes: Claims

1-20

No: Claims

2. Citations and explanations

see separate sheet

# Box No. VI Certain documents cited

Certain published documents (Rules 43bis.1 and 70.10)
 and /or

2. Non-written disclosures (Rules 43bis.1 and 70.9)

see form 210

# Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

# Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

#### Re Item V.

- 1 Reference is made to the following documents:
  - D1: WO 03/092771 A (PA KNOWLEDGE LIMITED; MARTIN, JEFFREY; HUGHES, MARTIN, LAWRENCE) 13 November 2003 (2003-11-13)
  - D2: US 2001/005781 A1 (BERGENS THOMAS ET AL) 28 June 2001 (
  - D3: WO 2004/054645 A (CILAG AG INTERNATIONAL; HARRISON, NIGEL, DAVID; BRADY, MATTHEW, JAMES;) 1 July 2004 (2004-07-01)
  - D4: WO 03/097133 A (OWEN MUMFORD LIMITED; MARSHALL, JEREMY) 27 November 2003 (2003-11-27)
  - D5: WO 2004/011065 A (ALZA CORPORATION) 5 February 2004 (2004-02-05)
- 2 CLAIMS 1-20
- 2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT. Document D1-D5 discloses all the features of the present claims to 20. Indeed, all the mentioned documents disclose the fact that a coupling prevents the first drive element from moving relative to the second until they have been advanced to a nominal decoupling position relative to the syringe, see in particular the respective abstracts and figures.
- 2.2 It is not at present apparent which part of the application could serve as a basis for a new, allowable claim. Should the applicant nevertheless regard some particular matter as patentable an independent claim including such matter should be filed taking account of Rule 29(1) EPC.
  The applicant should also indicate in the letter of reply the difference of the
  - subject-matter of the new claim vis-à-vis the state of the art and the significance thereof.

# Re Item VI.

 Document D3 is considered to be an intermediate document and should therefore only be taken into consideration for novelty in the regional phase.

## Re Item VII.

- 1. The description should have been brought into conformity with the new claims to be filed; care should be taken during revision, especially of the introductory portion including any statements of problem or advantage, not to add subject-matter which extends beyond the content of the application as originally filed (Art. 34 2) b)).
- 2. To meet the requirements of Rules 6 3 b) the independent claim should have been properly cast in a two part form, with those features which in combination are part of the nearest prior art being placed in the first part.
- 3. To meet the requirements of Rule 5.1 a vi, the cited documents should have been identified in the description and the relevant background art therein is to be indicated.
- 4. The features of the claims should have been provided with reference signs placed in parentheses (Rule 6.2(b) PCT).

## Re Item VIII.

- 1. Although claims 1 and 11 have been drafted as separate independent claims, they appear to relate effectively to the same subject-matter and to differ from each other only with regard to the definition of the subject-matter for which protection is sought and in respect of the terminology used for the features of that subject-matter. The aforementioned claims therefore lack conciseness. Moreover, lack of clarity of the claims as a whole arises, since the plurality of independent claims makes it difficult, if not impossible, to determine the matter for which protection is sought, and places an undue burden on others seeking to establish the extent of the protection.

  Hence, claims 1 and 11 do not meet the requirements of Article 84 EPC.
- 2. The present claims 1 and 11 are not clear or clearly supported by the description since the claimed principle works only with the disclosed damping system between the two drives. Thus, the above mentioned feature "damping" should be included in claim 1 since it is considered to be essential features (see Guidelines C-III, 4.4).

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/GB2005/002131

3. Even if claim 1 is so clarified, the subject-matter thereof cannot be considered to be novel since all the features are known from several cited documents.